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2/3,AB/1 (Item 1 from file: 5)

0006793167 Biosis No.: 198988108282

**PROTECTIVE EFFICACY OF MOUSE SERUM TO THE N PROPIONYL DERIVATIVE
OF MENINGOCOCCAL GROUP B POLYSACCHARIDE**

Author: ASHTON F E (Reprint); RYAN J A; MICHON F; JENNINGS H J

Author Address: BUR MICROBIOL, LAB CENTRE DIS CONTROL, TUNNEY'S
PASTURE, OTTAWA, CAN** CANADA

Journal: Microbial Pathogenesis 6 (6): p 455-458 1989

ISSN: 0882-4010

Document Type: Article

Record Type: Abstract

Language: ENGLISH

Abstract: The protective properties of antibodies induced by immunization of mice with a conjugate of tetanus toxoid and the N-propionyl derivative of group B meningococcal polysaccharide (N-Pr-GBMP-TT) have been investigated. Mice immunized with the conjugate produced antibodies which were bactericidal for *Neisseria meningitidis* strains B:2b:P1.Ham and B:15:P1.16. Passive protection studies indicated that the conjugate serum completely eliminated or reduced considerably levels of bacteremia by the same strains in mice. There was no bactericidal activity or passive protection against a strain of *N. meningitidis* C:2b:P1.2. Following absorption of the conjugate serum with GBMP the non-absorbed antibody, directed to N-Pr-GBMP, was bactericidal and protected mice against bacteremia with group B meningococci. Thus N-Pr-GBMP antibodies which do not bind to the GBMP are protective in vitro and in vivo.

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2/3,AB/2 (Item 1 from file: 34)

11046219 **Genuine Article#:** 602JQ **Number of References:** 27

Serological and conformational properties of E-coli K92 capsular polysaccharide and its N-propionylated derivative both illustrate that induced antibody does not recognize extended epitopes of polysialic acid: Implications for a comprehensive conjugate vaccine against groups B and C N-meningitidis

(ABSTRACT AVAILABLE)

Author: Pon RA; Khieu NH; Yang QL; Brisson JR; Jennings HJ (REPRINT)

Corporate Source: Natl Res Council Canada, Inst Biol Sci, 100 Sussex Dr/Ottawa/ON K1A 0R6/Canada/ (REPRINT); Natl Res Council Canada, Inst Biol Sci, Ottawa/ON K1A 0R6/Canada/

Journal: CANADIAN JOURNAL OF CHEMISTRY-REVUE CANADIENNE DE CHIMIE , 2002 , V 80 , N8 (AUG) , P 1055-1063

ISSN: 0008-4042 **Publication date:** 20020800

Publisher: NATL RESEARCH COUNCIL CANADA , RESEARCH JOURNALS, MONTREAL RD, OTTAWA, ONTARIO K1A 0R6, CANADA

Language: English **Document Type:** ARTICLE

Abstract: The capsular polysaccharide of *E. coli* K92 (K92P) contains elements in common with the capsular polysaccharides of both groups B and C *N. meningitidis*, and may therefore form the basis of a bivalent vaccine. In an attempt to augment the cross-protective immune response to group B meningococci, the N-acetyl groups of the K92P were replaced by N-propionyl groups (NPrK92P) and conjugated to protein. This strategy had previously been applied with success to the poorly immunogenic capsular polysaccharide of group B meningococcus (GBMP), and the bactericidal epitope was found to be exclusively mimicked by extended helical segments of the NPrGBMP. The NPrK92P-conjugate, in relation to a K92P-conjugate, failed to enhance the response to GBMP but did generate a measurable response to NPrGBMP, but only at the expense of a greatly reduced GCMP response. Despite the presence of an immune response to NPrGBMP, the anti-NPrK92 serum was not bactericidal. Competitive inhibition studies with NPrGBMP oligosaccharides suggested the NPrK92 antibodies could not cross-react with the protective epitope on group B meningococci, as defined by extended helical segments of the NPrGBMP, but only recognized short nonbactericidal NPrGBMP epitopes. This hypothesis was supported from the conformational and molecular dynamics studies of the K92P, which demonstrated a lack of extended conformations that resemble the GBMP extended epitope. Indeed, the conformational properties of the K92P more closely resembled those of the GCMP, thereby explaining the observed moderate cross-protection of the K92P antiserum towards group C meningococci. Thus, on the basis of these results, it can be concluded that K92P, regardless of N-propionyl modification, will not serve as an effective single vaccine component against both groups B and C meningococci.

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2/3,AB/3 (Item 1 from file: 65)

03897687 Inside Conference Item ID: CN040959245

N-propionylated E. coli K92 polysaccharide-protein conjugate elicits bactericidal antibodies in mice against group C but not group B N. meningitidis

Pon, R.; Lussier, M.; Brisson, J. R.; Jennings, H. J.

Conference: International pathogenic Neisseria conference - 11th

ABSTRACTS OF THE INTERNATIONAL PATHOGENIC NEISSERIA CONFERENCE , 1998; 11TH P: 152

Paris, EDK, 1998

ISBN: 2842540158

Language: English **Document Type:** Conference Selected abstracts

Location: Nice, France

1998; Nov (199811) (199811)

Inside Conferences (Dialog® File 65): (c) 2004 BLDSC all rts. reserv. All rights reserved.

2/3,AB/18 (Item 1 from file: 399)

141087318 **CA:** 141(6)87318m **JOURNAL**

Clinical evaluation of a group B meningococcal N-propionylated polysaccharide conjugate vaccine in adult, male volunteers

Author: Bruge, Joelle; Bouveret-Le Cam, Nancy; Danve, Bernard; Rougon, Genevieve; Schulz, Dominique

Location: Aventis Pasteur France, 69280, Marcy-l'Etoile, Fr.

Journal: Vaccine

Date: 2004

Volume: 22 **Number:** 9-10 **Pages:** 1087-1096

CODEN: VACCDE

ISSN: 0264-410X

Publisher Item Identifier: 0264-410X(03)00732-1

Language: English

Publisher: Elsevier Science Ltd.

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2/3,AB/20 (Item 3 from file: 399)

108148511 **CA:** 108(17)148511m **JOURNAL**

Chemically modified group B meningococcal polysaccharides as human vaccines

Author: Jennings, Harold J.; Ashton, Fraser E.; Gamian, Andrzej; Michon, Francis; Roy, Rene

Location: Div. Biol. Sci., Natl. Res. Counc. Canada, Ottawa, ON, Can., K1A 0R6

Journal: Prog. Biotechnol.

Date: 1987

Volume: 3 **Number:** Ind. Polysaccharides **Pages:** 149-56

CODEN: PBITE3

Language: English

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2/3,AB/21 (Item 4 from file: 399)

105170170 **CA:** 105(19)170170j **JOURNAL**

Induction of meningococcal group B polysaccharide-specific IgG antibodies in mice by using an N-propionylated B polysaccharide-tetanus toxoid conjugate vaccine

Author: Jennings, Harold J.; Roy, Rene; Gamian, Andrzej

Location: Div. Biol. Sci., Natl. Res. Counc. Canada, Ottawa, ON, Can., K1A 0R6

Journal: J. Immunol.

Date: 1986

Volume: 137 **Number:** 5 **Pages:** 1708-13

CODEN: JOIMA3

ISSN: 0022-1767

Language: English

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2/3,AB/22 (Item 5 from file: 399)

104127835 CA: 104(15)127835x CONFERENCE PROCEEDING

Enhancement of the immune response to the group B polysaccharide of *Neisseria meningitidis* by means of its chemical modification

Author: Jennings, Harold J.; Roy, Rene

Location: Div. Biol. Sci., Natl. Res. Counc. Canada, Ottawa, ON, Can., K1A 0R6

Journal: Pathog. Neisseriae, Proc. Int. Symp., 4th

Editor: Schoolnik, Gary K (Ed),

Date: 1985

Pages: 628-32

CODEN: 54ZAAE

Language: English

Meeting Date: 840000

Publisher: Am. Soc. Microbiol. , Washington, D. C

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EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

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L2	(meningitidis or MenB or GBPS) same (conjugat\$ or glycoconjugat\$)	same propionyl\$	13	L2
DB=USPT; PLUR=YES; OP=OR				
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1. Document ID: US 6656472 B1

Using default format because multiple data bases are involved.

L2: Entry 1 of 13

File: USPT

Dec 2, 2003

US-PAT-NO: 6656472

DOCUMENT-IDENTIFIER: US 6656472 B1

TITLE: Multi oligosaccharide glycoconjugate bacterial meningitis vaccines

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chong; Pele	Richmond Hill			CA
Lindberg; Alf	Lyons			FR
Klein; Michel H.	Willowdale			CA

US-CL-CURRENT: 424/193.1, 424/197.11, 424/244.1, 424/249.1, 424/250.1, 530/322,
530/335, 530/345, 530/402, 530/403, 530/807

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Claims](#) [KMC](#) [Drawn D](#)

2. Document ID: US 6642354 B2

L2: Entry 2 of 13

File: USPT

Nov 4, 2003

US-PAT-NO: 6642354

DOCUMENT-IDENTIFIER: US 6642354 B2

TITLE: Molecular mimetics of unique Neisseria meningitidis serogroup B epitopes

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Claims](#) [KMC](#) [Drawn D](#)

3. Document ID: US 6638513 B2

L2: Entry 3 of 13

File: USPT

Oct 28, 2003

US-PAT-NO: 6638513

DOCUMENT-IDENTIFIER: US 6638513 B2

TITLE: Neisseria meningitidis serogroup B Glycoconjugates

4. Document ID: US 6596283 B2

L2: Entry 4 of 13

File: USPT

Jul 22, 2003

US-PAT-NO: 6596283

DOCUMENT-IDENTIFIER: US 6596283 B2

TITLE: Meningococcal polysaccharide conjugate vaccines

5. Document ID: US 6350449 B1

L2: Entry 5 of 13

File: USPT

Feb 26, 2002

US-PAT-NO: 6350449

DOCUMENT-IDENTIFIER: US 6350449 B1

** See image for Certificate of Correction **

TITLE: Antibodies to meningococcal polysaccharide conjugate vaccines

6. Document ID: US 6048527 A

L2: Entry 6 of 13

File: USPT

Apr 11, 2000

US-PAT-NO: 6048527

DOCUMENT-IDENTIFIER: US 6048527 A

TITLE: Antibodies that define unique Meningococcal B epitopes and vaccine compositions

7. Document ID: US 6030619 A

L2: Entry 7 of 13

File: USPT

Feb 29, 2000

US-PAT-NO: 6030619

DOCUMENT-IDENTIFIER: US 6030619 A

TITLE: Molecular mimetics of meningococcal B epitopes

8. Document ID: US 5969130 A

L2: Entry 8 of 13

File: USPT

Oct 19, 1999

US-PAT-NO: 5969130

DOCUMENT-IDENTIFIER: US 5969130 A

TITLE: Meningococcal polysaccharide conjugate vaccines

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9. Document ID: US 5902586 A

L2: Entry 9 of 13

File: USPT

May 11, 1999

US-PAT-NO: 5902586

DOCUMENT-IDENTIFIER: US 5902586 A

TITLE: Meningococcal polysaccharide conjugate vaccine

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Text](#) | [Image](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

10. Document ID: US 5811102 A

L2: Entry 10 of 13

File: USPT

Sep 22, 1998

US-PAT-NO: 5811102

DOCUMENT-IDENTIFIER: US 5811102 A

TITLE: Modified meningococcal polysaccharide conjugate vaccines

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11. Document ID: US 5683699 A

Using default format because multiple data bases are involved.

L2: Entry 11 of 13

File: USPT

Nov 4, 1997

US-PAT-NO: 5683699

DOCUMENT-IDENTIFIER: US 5683699 A

TITLE: Meningococcal polysaccharide conjugate vaccine

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jennings; Harold J.	Gloucester			CA
Michon; Francis	Ottawa			CA

US-CL-CURRENT: 424/197.11; 424/193.1, 424/203.1, 530/403, 530/405, 530/409,
530/411, 536/18.7, 536/55.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Drawn D
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12. Document ID: US 5576002 A

L2: Entry 12 of 13

File: USPT

Nov 19, 1996

US-PAT-NO: 5576002

DOCUMENT-IDENTIFIER: US 5576002 A

TITLE: Meningococcal polysaccharide conjugate vaccine

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Drawn D
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13. Document ID: US 4727136 A

L2: Entry 13 of 13

File: USPT

Feb 23, 1988

US-PAT-NO: 4727136

DOCUMENT-IDENTIFIER: US 4727136 A

TITLE: Modified meningococcal group B polysaccharide for conjugate vaccine

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(meningitis or MenB or GBPS) same (conjugat\$ or glycoconjugat\$)
same propionyl\$

13

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